

Approved For Release 2000/08/21 : CIA-RDP33-02415A000500400003-8

**SECRET**

(When Filled In)

FILE INFO

CWT

CWT

OCT 21 17281261									
REPRODUCTION PROHIBITED									
ACTION	1	DM	6	IDEA	11	RB	16		
	2		7	"	12		17		
	3	1	8	CMP	13		19		
	4	25A	9	BFD	14		19		
	5	D/Ops	10	SAS	15		20		

25X1A2g

25X1A9a

NNNS E C R F T 202054Z OCT 72

25X1A2g

INFO

25X1A2g

IDEALIST

25X1A9a

SUBJECT: MODIFICATION OF THE DELTA III-2 PANORAMIC CAMERA

- 25X1A2g 1. SOME TIME AGO, [REDACTED] AUTHORIZED FUNDS FOR THE MODIFICATION OF  
A DELTA III CAMERA TO PROVIDE FOR ONE APOCHROMAT PETZVAL LENS. THIS  
25X1A5a1 NEW LENS WAS BUILT [REDACTED] AND INSTALLED IN A DELTA III PROVIDED BY  
ADIC. THE PURPOSE OF THIS MODIFICATION WAS TO PROVIDE A HIGH RESO-  
LUTION COLOR CORRECTED LENS FOR [REDACTED] TEST PURPOSES. 25X1A2g
2. THIS SYSTEM HAS PROVED HIGHLY USEFUL IN THE [REDACTED] PROGRAM,  
IN PARTICULAR THE HIGH RESOLUTION CAPABILITY OF THIS APOCHROMAT HAS  
BEEN SHOWN TO BE EXCELLENT FOR PRACTICAL TESTING OF NEW FILMS. AT  
THE OCTOBER CCR, HOWEVER, TWO SIGNIFICANT DEFICIENCIES OF THIS DELTA  
III-2 WERE DISCUSSED AT LENGTH. THE FIRST PROBLEM IS THAT THERE IS  
ONLY ONE APOCHROMAT LENS. THE OTHER LENS IS AN OLD TYPE I PETZVAL,  
WHICH HAS SIGNIFICANTLY LOWER RESOLUTION THAN THE APOCHROMAT. THIS  
MAKES DIRECT COMPARISON TESTS IMPOSSIBLE. AN EXCELLENT EXAMPLE OF  
THIS PROBLEM IS THE RECENT ATTEMPTS TO RUN [REDACTED] COMPARISONS OF  
1414 AND SC-446. PUTTING 1414 IN ONE CAMERA AND SO-446 IN THE

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APOCHROMAT (OR VICE VERSA) IS AN UNFAIR COMPARISON DUE TO THE VAST DIFFERENCE IN LENS QUALITY. THE SECOND PROBLEM IS THAT THERE IS ONLY ONE EXPOSURE SLIT PER CAMERA. THIS ALSO CAUSES DIRECT COMPARISONS TO BE DIFFICULT TO OBTAIN IF THE FILMS REQUIRE DIFFERENT EXPOSURE TIMES (I.E. IF THEY ARE OF DIFFERENT SPEEDS). THE ONE SLIT IS ALSO A PROBLEM FOR MANY OF THE LONGER [REDACTED] FLIGHTS WHERE THE SUN ANGLE 25X1A2g CHANGES SIGNIFICANTLY DURING THE MISSION.

3. AT THE CCB MEETING, I AGREED TO INVESTIGATE THE COST INVOLVED TO FURTHER MODIFY THE DELTA III-2 SYSTEM TO TAKE CARE OF THESE PROBLEMS. 25X1A5a1 [REDACTED] HAS DELIVERED A PROPOSAL THAT WILL PROVIDE FOR:

A. MANUFACTURING, TESTING AND INSTALLING A SECOND APOCHROMAT PETZVAL IN THE OTHER CAMERA.

B. MODIFYING THE CAMERA TO PROVIDE FOR A SLIT WIDTH MECHANISM AND CONTROL TO ALLOW EXPOSURE WITHIN 10 PER CENT OF THAT DESIRED.

C. POST-MODIFICATION ACCEPTANCE, TEST AND CHECKOUT OF THE TOTAL SYSTEM.

25X1A2g 4. THE PROPOSED COST IS \$350K. THE DELTA III-2 HAS BECOME THE WORK HORSE OF THE [REDACTED] PROGRAM. TO BE THE MOST EFFECTIVE TEST BED, THE ABOVE CHANGES ARE REQUIRED. IT IS RECOMMENDED THAT ADIC BE PROVIDED THE FUNDS TO MAKE THE MODIFICATIONS NOTED ABOVE. E-2 IMPDET.

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